

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1.-22.. (Canceled)

23.(New) A rotary ring system for use in scale reading apparatus comprising:

a rotary ring, provided with scale marks on a surface thereof, defining a pattern and readable by a readhead of such apparatus;

at least one intermediate member;

wherein the at least one intermediate member is fitted between the rotary ring and the part of the machine on which the rotary ring is mounted.

24.(New) A rotary ring system according to claim 23 wherein applying a force to one of the at least one intermediate member and rotary ring secures the rotary ring in place.

25.(New) A rotary ring system according to claim 24 wherein the force adjusts the effective radius of the rotary ring.

26.(New) A rotary ring system according to claim 24 wherein said force is applied to said at least one intermediate member.

27.(New) A rotary ring system according to claim 24 wherein the force is an axial force.

28.(New) A rotary ring system according to claim 26 wherein applying a force to the at least one intermediate member causes deformation of the at least intermediate member.

29.(New) A rotary ring system according to claim 26 wherein retaining means are provided to retain the at least one intermediate member on the rotary part of the machine and wherein said force is applied to the said at least one intermediate member by said retaining means.

30.(New) A rotary ring system according to claim 26 wherein there is more than one than one intermediate member and wherein the force is applied to every intermediate member.

31.(New) A rotary ring system according to claim 27 wherein the at least one intermediate member is provided with at least one tapered surface such that when the rotary ring and the at least one intermediate member are mounted on a part of the machine at least one tapered surface of the at least one intermediate member is in contact with a tapered surface of one or both of the rotary part of the machine and the rotary ring.

32.(New) A rotary ring system according to claim 31 wherein an axial force may be applied to one of the at least one intermediate member and rotary ring such that the tapered surface of the at least one intermediate member and the tapered surface of one or both of the part of the machine and the rotary ring move relative to one another, causing adjustment in the effective radius of the rotary ring.

33.(New) A rotary ring system according to claim 23 wherein the intermediate ring system is a continuous ring.

34.(New) A rotary ring system according to claim 23 wherein the intermediate ring system comprises a split ring.

35.(New) A rotary ring system according to claim 23 wherein the intermediate ring system comprises a plurality of segments.

36.(New) A rotary ring system according to claim 23 wherein the at least one intermediate member is flexible.

37.(New) A rotary system according to claim 23 wherein the at least one intermediate member comprises a plurality of ball shaped members.

38.(New) A rotary ring system according to claim 23 wherein the at least one intermediate member comprises a plurality of rollers.

39.(New) A rotary ring system according to claim 23 wherein the at least one intermediate member comprises a spring system.

40.(New) A rotary ring system according to claim 23 wherein anchor means are provided to prevent rotation of the rotary ring relative to the part of the machine.

41.(New) A rotary ring system for use in scale reading apparatus comprising:
a rotary ring, provided with scale marks on a surface thereof, defining a pattern and readable by a readhead of such apparatus;
at least one intermediate member;
wherein the at least one intermediate member is fitted between the rotary ring and the part of the machine on which the rotary ring is mounted;
and wherein applying a force to said at least one intermediate member adjusts the effective radius of the rotary ring.

42.(New) A rotary ring system for use in scale reading apparatus comprising:
a rotary ring, provided with scale marks on a surface thereof, defining a pattern and readable by a readhead of such apparatus;
at least one intermediate member;
wherein the at least one intermediate member is fitted between the rotary ring and the part of the machine on which the rotary ring is mounted;
and wherein the at least one intermediate member is compliant.

43.(New) A rotary ring system according to claim 42 wherein the at least one intermediate member is tangentially compliant.

44.(New) A rotary ring system according to claim 42 wherein anchor means are provided to prevent rotation of the rotary ring relative to the part of the machine.